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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	Confirmation No.:
Applicant	:	Malcom Levitt et al.
Entitled	:	NMR Spectroscopy using Spin States with Long Lifetimes
Filed	:	HEREWITH
TC/A.U.	:	
Examiner	:	
Docket No.	:	301-0005US
Customer No.	:	29855

Commissioner for Patents
PO BOX 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Please amend the above-identified application as follows:

- I. **Amendments to the Specification** begin on page 2 of this paper.
- II. **Amendments to the Claims** are reflected in the listing of claims, which begins on page 3 of this paper.
- III. **Remarks** begin on page 10 of this paper.
- IV. **Appendix A** includes a clean version of the substitute specification.
- V. **Appendix B** includes a marked-up version of the substitute.